



Analytical Laboratory

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McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J10120028

Project Name: NPDES - QUARTERLY

Customer Name(s): Sue Wallace, Matthew Dorn, Mark Harper, Todd Spade, Tara Thomas

Customer Address: 11021 BROWER RD.

NORTH BEND, OH 45052

Lab Contact: Theron T James Phone: 980-875-4795

Report Authorized By: _____ **Date:** 12/16/2010
(Signature)

Program Comments:

NPDES Quarterly - December

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with an "X" or "1" indicate a deviation from the method quality system or quality control requirement. All results are reported on a dry weight basis unless otherwise noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

The results in this report meet NELAP requirements through New York State Department of Health Certification # 11717. Certified parameters are designated with an "N" in the analytical report.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2010012758	MIAMI-FORT	07-Dec-10 8:45 AM	Mark Harper	OUTFALL 002
2010012759	MIAMI-FORT	07-Dec-10 8:07 AM	Mark Harper	OUTFALL 608
2 Total Samples				

Technical Validation Review

Checklist:

COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).

☒ Yes

☐ No

All Results are less than the laboratory reporting limits.

☐ Yes

☒ No

All laboratory QA/QC requirements are acceptable.

☒ Yes

☐ No

The Vendor Laboratories have been qualified by the Analytical Laboratory

N/A

Report Sections Included:

☒ Job Summary Report

☒ Sample Identification

☒ Technical Validation of Data Package

☒ Analytical Laboratory Certificate of Analysis

☐ Analytical Laboratory QC Report

☐ Sub-contracted Laboratory Results

☐ Customer Specific Data Sheets, Reports, & Documentation

☐ Customer Database Entries

☐ Test Case Narratives

☒ Chain of Custody

☐ Electronic Data Deliverable (EDD) Sent Separately

Reviewed By: Jenny A Herman

Date: 12/16/2010

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J10120028

Site: OUTFALL 002

Collection Date: 07-Dec-10 8:45 AM

Sample #: 2010012758

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	Method	Analysis Date/Time	Analyst
<u>AMMONIA (COLORIMETRIC)</u>							
Ammonia (Colorimetric)	0.43	mg-N/L	N	0.02	EPA 350.1	10-Dec-10 11:41	BGN9034
<u>TOTAL KJELDAHL NITROGEN (COLORIMETRIC)</u>							
Total Kjeldahl Nitrogen (Colorimetric)	1.1	mg-N/L	N	0.1	EPA 351.2	11-Dec-10 12:59	BGN9034
<u>TOTAL DISSOLVED SOLIDS</u>							
TDS	1000	mg/L	N	10	SM2540C	10-Dec-10 13:00	CLEEMAN

Site: OUTFALL 608

Collection Date: 07-Dec-10 8:07 AM

Sample #: 2010012759

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	Method	Analysis Date/Time	Analyst
<u>ALKALINITY (FIXED END POINT 4.5)</u>							
Alkalinity (mg/L CaCO ₃)	1800	mg/L (CaCO ₃)	N	0.1	SM2320B	09-Dec-10 10:21	CLEEMAN
<u>INORGANIC IONS BY IC</u>							
Chloride	7300	mg/L	N	100	EPA 300.0	09-Dec-10 14:07	CLEEMAN
Fluoride	22	mg/L	N	10	EPA 300.0	09-Dec-10 14:07	CLEEMAN
Sulfate	13000	mg/L	N	200	EPA 300.0	09-Dec-10 14:07	CLEEMAN
<u>TOTAL METALS BY ICP</u>							
Boron (B)	478	mg/L	N	0.5	EPA 200.7	10-Dec-10 13:18	DJSULL1
Iron (Fe)	0.089	mg/L	N	0.01	EPA 200.7	10-Dec-10 13:18	DJSULL1
Manganese (Mn)	0.685	mg/L	N	0.005	EPA 200.7	10-Dec-10 13:18	DJSULL1
<u>TOTAL RECOVERABLE METALS BY ICP-MS</u>							
Arsenic (As)	< 20	ug/L	N	20	EPA 200.8	10-Dec-10 12:50	KRICHAR
Barium (Ba)	96.1	ug/L	N	20	EPA 200.8	10-Dec-10 12:50	KRICHAR
Cadmium (Cd)	< 20	ug/L	N	20	EPA 200.8	10-Dec-10 12:50	KRICHAR
Chromium (Cr)	< 20	ug/L	N	20	EPA 200.8	10-Dec-10 12:50	KRICHAR
Copper (Cu)	< 20	ug/L	N	20	EPA 200.8	10-Dec-10 12:50	KRICHAR
Lead (Pb)	< 20	ug/L	N	20	EPA 200.8	10-Dec-10 12:50	KRICHAR
Zinc (Zn)	< 40	ug/L	N	40	EPA 200.8	10-Dec-10 12:50	KRICHAR
<u>TOTAL DISSOLVED SOLIDS</u>							
TDS	33000	mg/L	N	10	SM2540C	10-Dec-10 13:00	CLEEMAN
<u>TOTAL SUSPENDED SOLIDS</u>							
TSS	17	mg/L	N	5	SM2540D	09-Dec-10 14:35	TJA7067

